

Amendments to the Specification:

Please replace paragraph beginning on page 6, line 1 with the following amended paragraph:

FIGS. 5A-5E show[[s]] the full length amino acid sequence of β -secretase 1-501 (SEQ ID NO: 2), including the ORF which encodes it (SEQ ID NO: 1), with certain features indicated, such as "active-D" sites indicating the aspartic acid active catalytic sites, the transmembrane region commencing at position 453, as well as leader sequence (1-22; SEQ ID NO: 46) and putative pre-pro region (23-45; SEQ ID NO: 47) and where the polynucleotide region corresponding the proenzyme region (nt 135-1503) represents SEQ ID NO: 44.

Please replace paragraph beginning on page 6, line 18 with the following amended paragraph:

FIGS. 10A-10D shows an alignment of the amino acid sequence of human β -secretase ("Human Impain.seq")(SEQ ID NO:65) compared to various mouse constructs(SEQ ID NOS:81-84), with the lowest construct in each row ("pBS/mImpain H#3 cons")(SEQ ID NO:85) representing a consensus mouse sequence-~~SEQ ID NO: 65~~.

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Please replace paragraph beginning on page 6, line 25 with the following amended paragraph:

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FIGS. 13(A-E) ~~shows~~ 13A-13W show the nucleotide sequence of pCEK clone 27 (SEQ ID NO: 49), with the OFR indicated by the amino acid sequence SEQ ID NO: 2.

Please replace Table 3 beginning on page 27, line 28 with the following amended paragraph:

Table 3

N-terminal Sequences and Amounts of β -secretase Forms in Various Cell Types

Source	Est. Amount (pmoles)	N-terminus (Ref.: SEQ ID NO: 2)	Sequence
Human brain	1-2	46	ETDEEPEEPGR... (SEQ ID NO: [[76]]88)
Recombinant, 293T	~35	46	ETDEEPEEPGR... (SEQ ID NO: [[76]]88)
	~7	22	TQHGIRL(P)LR... (SEQ ID